

Abstract of the Disclosure

1 An optical testing apparatus for measuring the
2 transmission characteristics of a DWDM filter. A first opto-
3 mechanical lens assembly comprises a light emitter and a first
4 optical axis which is angularly adjustable via a spherically
5 shaped bearing surface pivoting about a specified first fixed
6 point. A second opto-mechanical lens assembly comprises a
7 light collector and a second optical axis which is also
8 angularly adjustable via a spherically shaped bearing surface
9 pivoting about a specified second fixed point whereby the
10 second optical axis is positioned coaxially with respect to the
11 first optical axis. The first optical axis and the second
12 optical axis are coaxially aligned passing through a center of
13 the DWDM filter positioned on a platen. A computer controlled
14 measurement system for automatic testing of each of a plurality
15 of DWDM filters comprises a tuneable laser system, a system
16 control computer, a display, a light detector, a computer
17 controlled xyz table and a measurement apparatus which includes
18 an optical assembly having an optical axis which is angularly
19 adjustable via a spherically shaped bearing surface pivoting
20 about a fixed point.